**Program-7: Develop a simple application with one EditText so that the user can write some text in it. Create a button called “Convert Text to Speech” that converts the user input text into voice.**

1) Firstly Create an Application by Name “TextToSpeech”

2) Go to xml code of design change the layout to “RelativeLayout”

3) Add TextView component & change the following properties:

4) Size: 38dp

5) Text: Text2Speech App

6) Center-Align

7) Add PlainText(EditText) component & change the following properties in XML Code:

• Text: “”

• Hint: “Enter the text to be converted”

• id: “@+id/editText”

8) Add Button component & change the following properties in XML Code:

• Name: Convert

• onClick: convert

*<?*xml version="1.0" encoding="utf-8"*?>*<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity">  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="335dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="21dp"  
 android:layout\_marginBottom="486dp"  
 android:text="Text2Speech"  
 android:textSize="30sp" />  
 <EditText  
 android:id="@+id/editText"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="142dp"  
 android:layout\_marginBottom="377dp"  
 android:ems="10"  
 android:hint="Enter text here"  
 android:inputType="textPersonName" />  
 <Button  
 android:id="@+id/convert"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="196dp"  
 android:layout\_marginBottom="236dp"  
 android:onClick="convert"  
 android:background="#6CEC71"  
 android:text="CONVERT" />  
</RelativeLayout>

JAVA CODE

package com.example.prog7;  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.speech.tts.TextToSpeech;  
import android.view.View;  
import android.widget.EditText;  
import java.util.Locale;  
public class MainActivity extends AppCompatActivity {  
 EditText e1;  
 TextToSpeech t1;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 e1=findViewById(R.id.*editText*);  
 t1=new TextToSpeech(getApplicationContext(), new TextToSpeech.OnInitListener()  
 {  
 @Override  
 public void onInit(int status)  
 {  
 if(status!=TextToSpeech.*ERROR*){  
 t1.setLanguage(Locale.*UK*);  
 }  
 }  
 });  
 }  
 public void convert(View V){  
 String tospeak=e1.getText().toString();  
 t1.speak(tospeak,TextToSpeech.*QUEUE\_FLUSH*,null);  
 }  
  
}

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